



CLEAN COPY OF AMENDED SPECIFICATION – S/N 09/901,870

TITLE

GRAPEVINE PLANT NAMED 9-9-12

GENUS AND SPECIES

[0001] *Vitis vinifera*

BACKGROUND AND SUMMARY OF THE INVENTION

[0002] The new table grapevine '9-9-12' is of *Vitis vinifera* parentage and resulted from an eighteen year breeding program of Marko Zaninovich, Inc. which had as its goal the development of a grapevine bearing large, seedless, green berries harvested in late season such as Thompson Seedless (unpatented). The female parent, grapevine '4-2-74' is a seeded grapevine bearing green-skinned fruit. It was derived from the variety 'Calmeria' (unpatented) and a seedless grapevine designated Q25-6. The male parent of the cross was an unnamed, unpatented, seedless grapevine designated as grapevine '5-20-60'. Grapevine '5-20-60' bears green, seedless berries and descends from a 'Cardinal' (seeded) and 'Perlette' (seedless) (both unpatented). The hybridization resulting in grapevine '9-9-12' was made near McFarland, California in 1988. Seeds from this cross were harvested, stratified and planted in a greenhouse. The resulting seedling population totaled 13 individual plants. All seedlings were subsequently transplanted to a field near McFarland, California in March, 1989. Grapevine '9-9-12' fruited in 1993 and was selected for further propagation. It was then propagated by cuttings in McFarland, CA and was grafted to 'Freedom' rootstock in 1995. This new variety has been found to retain its distinctive characteristics through successive propagation and this novelty is firmly fixed.

[0003] The new grapevine variety, grapevine '9-9-12' is similar to its male parent variety '5-20-60', but differs from it by having a much larger berry with firmer flesh. It differs from its female parent '4-2-74' by having a seedless (stenospermic) berry of much smaller size. Fruit cluster size is similar to '5-20-60'. Harvest time of '9-9-12' is later than that of its male parent '5-20-60', about 1 week after 'Thompson Seedless' (unpatented) in McFarland, California. It differs from other green, seedless varieties such as 'Princess' (unpatented) by having a much larger berry with applications of gibberellic acid.

[0004] The accompanying drawings illustrate the following:

FIG 1 illustrates the fruit cluster at harvest.

FIG 2 illustrates the upper leaf surface.

FIG 3 illustrates the young shoot and leaves.

DETAILED BOTANICAL DESCRIPTION OF THE INVENTION

[0005] The following description of grapevine '9-9-12' contains references to color names taken from the Munsell Color Chart for Plant Tissues, published by Munsell Color, New Windsor, New York. Descriptors used herein conform to those set forth by the International Board for Plant Genetic Resources Institute Grape Descriptors (*Vitis* spp.) of 1983 and/or 1997 which were developed in collaboration with the Office International de la Vigne et du Vin (OIV) and the International Union for the Protection of New Varieties of Plants (UPOV).

[0006] Descriptions of the new invention apply to vines of '9-9-12' grown on 'Freedom' rootstock at a density of 1,537 vines per hectare grown in Kern County, California in 2000. These vines were in their third year of full production having been planted in 1995. These descriptions are believed to apply generally to the new variety grown under similar circumstances elsewhere:

VINE

[0007] General:

Size: 5 year old vines on 'Freedom' rootstock are average size – trunk diameter is 70 mm.

Vigor: 5 year old vines on 'Freedom' rootstock are above-average vigor – cane length on vines thinned to 32 shoots averaged 2.65 meters of growth from March – September 2000.

Density of foliage: Moderate.

Productivity: Productive when cane pruned, up to 65kg./hectare.

Trunk circumference: About 22cm. at 1 meter height.

Rootstock: Freedom.

[0008] Trunk:

Shape: Circular.

Straps: Long, split.

Surface texture: Shaggy.

Inner bark color: 7.5YR 6/4

[0009] Immature Leaves

Leaf color: 5GY 5/8

[0010] Immature Shoots

Main branch color: 2.5GY 6/10

Lateral branch color: 2.5GY 6/10

[0011] Mature Leaves

Adaxial leaf color: 5GY 4/6

Abaxial leaf color: 5GY 5/6

Blade length: 17.0 cm.

Blade width: 23.4 cm.

Outline: Spherical

Lobing: 3 well-defined lobes.

Marginal teeth: Large.

Teeth outline: Acuminate.

Thickness: Medium

Petiole sinus: Narrow, v-shaped.

Color of veins, upper surface: 5Y 8/8.

[0012] Shoot tip:

Color: 2GY 7/8

[0013] Petiole:

Color: 2.5 GY 8/8.

Length: 15.4 cm.

[0014] Woody shoot:

Diameter: 1 cm.

Shoot surface: Rough, ridged.

Dormant buds: Large, flattened.

Lateral branching: Weak.

Color: 7.5 YR 6/6.

Internode length: 13.9 cm.

[0015] Flowers

Flower sex: Perfect.

Position of first flowering nodes: 4th.

Number of inflorescences per shoot: 1, rarely 2.

Number of flowers per inflorescence: 620

Inflorescence branches: Slender and irregular in length and

Position.

Date of full bloom: May 19, 2000.

Time of bloom: Late compared to other *Vitis vinifera* growing in the McFarland, California area.

Peduncle length: 2.5 cm.

Flower cluster length: 15.0 cm.

Pedicel length: 3.5 mm.

Calyptra color: 5GY 7/8

Ovary length: 2 mm.

Ovary width: 1.5 mm.

Ovary color: 5GY 4/8

Filament length: 2 mm.

Filament color: 2.5GY 8/2

Anther length: 1 mm.

Anther color: 2.5GY 8/8

Fruit

[0016] General:

Ripening period: About 1 week after 'Thompson Seedless' near McFarland, California.

Ripening date: August 12, 2000

Use: Fresh market.

Keeping quality: Very good. Clusters stored in mid-August retained high quality for a period of 10 weeks, 5% bruising of epidermis seen.

Disease: Some powdery mildew (*Uncinula necator* (Schw) Burr.)) has been observed on leaves and fruit. No other diseases observed.

Insects: Grape leafhopper, *Erythroneura elegantula* (Osborn) and variegated leafhopper, *Erythroneura variabilis* (Beamer) have been observed feeding on vines. No other predaceous insects have been observed.

Shipping quality: Good.

Date of first harvest: August 12, 2000.

Solids-sugar: 20 brix.

[0017] Cluster:

Bunch size: Large.

Bunch weight (natural): 480g.

Bunch weight (gibberellic acid treated): 920g.

Form: Conical.

[0018]

Berry

Size: Large.

Uniformity of size: Uniform.

Berry weight (natural): 5.7g.

Berry weight (gibberellic acid treated): 10.6g.

Shape: Spherical.

Presence of seeds: Rudimentary.

Cross section: Circular.

Skin color: 2.5GY 8/4

Flesh color: 5GY 7/8

Juiciness of flesh: Very juicy.

Berry firmness: Very firm.

Particular flavor: Neutral.

Bloom: Strong.

Berry separation from pedicel: Average for *Vitis vinifera*.

Berry length(natural) : 1.9 cm.

Berry diameter(natural) : 1.8 cm.

Berry length with gibberellic acid application: 3.0 cm.

Berry diameter with gibberellic acid application: 2.1 cm.

[019] Skin

Thickness: Medium.

Texture: Smooth.

Reticulation: Absent.

Tenacity: Tenacious to flesh.

Tendency to crack: Resistant.

[0020] Tendrils

Color: 2.5GY 7/10

Tendril length: 25.9 cm.

Conformation: Bifurcated or trifurcated.